Work Order July 8, 2010 -8:55:0		•					,	Page 1	
Revision ID:	212-664-201 osstube Aft		Accept			Se	tup Start Stop		
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# Dart Aerospace Ltd

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DATE	STEP	Desc	ription of NC		Corrective		ection B	0	Verifi	cation	Approval	Approval
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NOTE: Date & initial all entries

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Item ID:	D212-664-20 Crosstube Aft	1		Accept					Setup	Start Stop		
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Sequence ID/ Work Center II 130		Operation Description QC15- Crosstube Dimer	nsional Check	Set Up/ Run Hours 0.00	Tool ID	Tool#	Plan Code	Accept Qty	Rej Qty	- 1	Reject Number	Insp. Stamp
Quality Control	•	Crosstubes		0.00			ť					1
Crosstubes Crosstubes		DT8551, di 2-Ream ho DT8550 &	rill table DT8577 le to finish size ir	0.00 per Dwg D212-664-241 using dand locate tower holes #8 as per tube as per Dwg D212-664-24 imensions between holes, both dle holes.	r QSI0010.  Iusing drill Jig sides on both cuffs,	•	) - 0 1					!
		241	t Inspect for surfa	using vibrating stylus as per Dwing	g D212-664- hin limits as per	AN	M	10-	07	·- ]	J	

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Part No	): 		PAR #:	Fault Cate	gory:	NCF	R: Yes	No <b>DQ</b>	<b>A</b> :	Date:	
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Revision ID:	D212-664-20 Crosstube Aft	1		Accept		<b>i i</b> i i i i i i i i i i i i i i i i i	S	etup Start Stop			
Start Date: Required Date: Reference:	7/08/10 7/12/10	Start Qty: 1.00 Req'd Qty: 1.00			Cust Item II Customer:	<b>):</b> 		;	! :		
Approvals:		n:			Da		R	un Start Stop			
Sequence ID/ Work Center II 150 HandFXtube Hand Finishing Cross  160 QC Quality Control		Operation Description Crosstubes Chemical Con Memo Chemical Con QC3- Inspect Part Finish Memo		Set Up/ Run Hours 0.00  0.00  24 hours of bending and  0.00  0.00	Tool ID	Tool# Plan Code	Accept Qty	Reject	Reject Insp. Number Stamp  Ah M 10-07-2)		
170  QC  Quality Control		QC5- Inspect part compl Memo	eteness to step on W/O	0.00	soluter						

# **Dart Aerospace Ltd**

W/O:				W	ORK ORDER	CHANGES					
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		Des	cription of NC		Corrective Action			Verif	ication	Approval	Approval
DATE	STEP	200	Section A	Initial Chief Eng	Action Des	scription Eng	Sign Date	& Sec	tion C	Chief Eng	QC Inspector
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<b>Work Ord</b> <i>July 8, 2010 8:5</i>		150							Page 4
Item ID: Revision ID: I Item Name:	D212-664-20 Crosstube Aft	1		Accept			Setu	ip Start Stop	
]	7/08/10	Start Qty: 1.00 Req'd Qty: 1.00			Cust Item I	<b>D</b> :			1 (88)(18) 8(8)9 ((N (18) 188)
Approvals:	Process Plan	n:	Date:	Tooling:	Da	ite:	Run	Start	
			Date:			ite:		Stop	
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool # Plan Code			Reject Insp. Number Stamp
180 Outsource2		Outsource process - NDT	Γ per QS1038 4.1	0.00		! 	cz	10/7	1210
Outsource process -	NDT	Issue P/O:_ LPI as per A	trant Inspection as per 1230 STM 1417 Level 2 of NDT results to wor		ť		;		į.
190		Receive & Inspect for Da Packaging	amage & Mat'l Certs	0.00			/2	, ///	2 (1)
Packaging Packaging		<b>Memo</b> Ensure copy	of NDT results attach	0.00 ed to work order.	,		<del></del>		
200		QC5- Inspect part compl	leteness to step on W/C	0.00		· !		10	07 26 (1)
QC		Memo		0.00			- ZKI K(- " .	10	
Quality Control		Inspect for o	iamage & ensure result	s are as per Dwg D212-664	-241			1 1	

# **Dart Aerospace Ltd WORK ORDER CHANGES** W/O: **Approval Approval** STEP ... PROCEDURE CHANGE DATE By Date Qty Chief Eng / QC Inspector Prod Mgr Part No: PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_ NCR: Yes No DQA: \_\_\_ Date: \_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_ Date: \_\_\_\_ Resolution: WORK ORDER NON-CONFORMANCE (NCR) NCR: **Corrective Action** Section B Description of NC Section A Verification **Approval Approval DATE STEP Action Description** Sign & Initial Section C Chief Ena QC Inspector Date Chief Eng Chief Eng

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Page 5

Item ID: D212-664-201 Accept Setup Start **Revision ID:** Stop Item Name: Crosstube Aft **Start Date:** 7/08/10 Start Qty: 1.00 **Cust Item ID:** Required Date: 7/12/10 Req'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: Approvals: Date: \_\_\_\_\_ Tooling: Date: Stop Date: \_\_\_\_\_ SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Insp. Work Center ID Description Code Qty Number Stamp **Run Hours** Qty Spray Painting per QSI005 4.2 210 0.00 SprayPaint SprayPaint 0.00 Memo Spray Painting 1-Prime inside and outside crosstube as per QSI 005 4.2 2-Paint outside crosstube with White Imron as per QSI 005 4.2 PRIME: 8 00 Fininsh Time: 7; 90 PAINT: Start Time: ( . 6 0 Finish Time: 2.00 220 QC14- Inspect Spray Paint 0.00 0.00 Memo Quality Control Then, Wrap in plastic bag to protect from scratches

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## **Dart Aerospace Ltd WORK ORDER CHANGES** W/O: Approval **Approval** DATE STEP **PROCEDURE CHANGE** By Date Qty Chief Eng / QC Inspector Prod Mgr Part No: \_\_\_\_\_ \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_ Date: \_\_\_\_\_ \_\_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_ Resolution: WORK ORDER NON-CONFORMANCE (NCR) NCR: **Corrective Action** Section B **Description of NC** Verification **Approval Approval STEP** DATE **Action Description** Sign & Initial Section A QC Inspector Section C Chief Eng Date Chief Eng Chief Eng

<b>Work Ord</b> <i>July 8, 2010 8:3</i>		450					:		Page 6
Item ID: Revision ID: Item Name:	D212-664-20 Crosstube Aft	01	The second secon	Accept			Se	tup Start Stop	
Start Date: Required Date: Reference:	7/08/10 7/12/10	Start Qty: 1.00 Req'd Qty: 1.00			Cust Item I Customer:	D:	:		· • • • • • • • • • • • • • • • • • • •
Approvals:		n:				nte:	Ru	n Start   	
Sequence ID/ Work Center II		Operation Description		Set Up/ Run Hours	Tool ID	Tool # Plan Code	Accept Qty	•	Reject Insp. Number Stamp
Crosstubes Crosstubes	r	with 41058 v 2-Install sup A/R 6398	vash 'n' wipe oorts with magnoboo 3 Magnobond E E	0.00  using a 320 grit sand paper and as per QSI 015 Adhere for fatch: 114158  expiry Date: 01/2011	or 12 Hrs		1/1/1	_10	07 27 (1)
240 AND AND AND AND AND AND AND AND AND AND		3-Install clan  QC5- Inspect part comple  Memo			50-100 in 1b. W(1	0.20.38 Q	<b>(</b>		·

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Part No	):		PAR #:	Fault Cate	gory:	NC	R: Yes	No	DQA:	_ Date: _	
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DATE	STEP	De	scription of NC		Corrective Action	Section B	1	Ve	erification	Approval	Approva
DAIE	SIEP		Section A	Initial Chief Eng	Action Descri	ption	Sign Date		Section C	Chief Eng	QC Inspect
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<b>Work Ord</b> <i>July 8, 2010 8:</i>		150						Page 7
Item ID: Revision ID: Item Name: Start Date: Required Date: Reference:	D212-664-20  Crosstube Aft 7/08/10 : 7/12/10	Start Qty: 1.00 Req'd Qty: 1.00			Cust Item I Customer:	<b>D</b> :	Setup	Start Stop
Approvals:		1:				ate:	Run	Start Stop
Sequence ID/ Work Center I 250 Packaging Packaging		Operation Description Pick Kit Memo		Set Up/ Run Hours 0.00	Tool ID	Tool # Plan Code	Accept Rej. Qty Qty	
260 		QC4- 100% Inspect kits  Memo	for completeness	0.00	10x129			
270    <b>                                  </b>		Packaging  Memo  Identify and	MUR pack for shipping as per	0.00 0.00 PPP D212-664-201				11/28 (2

# **Dart Aerospace Ltd WORK ORDER CHANGES** W/O: **Approval Approval** DATE STEP PROCEDURE CHANGE By Date Qty Chief Eng / Prod Mgr QC Inspector Part No: PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_ Date: \_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_ Resolution: MODE ODDED NON CONFORMANCE (NCD)

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July 8, 2010 8.	:55:07 AM				ì			1				.1
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	QC:	A	Date:	<b>SPC (Y/N):</b>	D	ate:				Stop 		
Sequence ID/ Work Center	ID	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept	Re <sub>Q</sub>		Reject Number	Insp. Stamp
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QC		Memo		0.00								
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# **Dart Aerospace Ltd** W/O: **WORK ORDER CHANGES** Approval **Approval** STEP DATE PROCEDURE CHANGE By Date Qty Chief Eng / QC Inspector Prod Mar Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_ Date: \_\_\_\_ \_\_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_ Resolution: WORK ORDER NON-CONFORMANCE (NCR) NCR: **Corrective Action** Section B Description of NC Verification **Approval Approval STEP** DATE Sign & **Action Description** Initial Section A Section C Chief Eng QC Inspector Date Chief Eng Chief Eng

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Work Order ID: 60	)450						1			1				
Parent Item: D2	212-664-201									1				
Parent Item Name:	Crosstube Aft								art Date:			quired Date		
								S	Start Qty:	1.00	Re	equired Qty	: 1.00	•
Comments:	IPP Rev:E□04.02.1 IPP Rev:F 06-03- IPP Rev:G 07-04- IPP Rev:H 08-05-	29 Remove Cor 30 As per Rev	ments o	on Pick List JLM per cushion I	JLM DD verified by:	EC							•	
Component Item ID/ tem Name	Replacement Item ID	Mfg/ Purch		Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per	Kit Total Qty	Qty Issu		~	tus
0212-664-201TRN		Manufactured	No			110	Each	2.0000	1	1 MB		0-0	7-2	_0
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				<u>Location</u> LG		<u>Loc</u>	<u>2</u>	Loc Code			-			
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RUBBER CUSHION 02940-1			t	Location FP LG	59857 59858 50030 51776 59581	230 <u>Loc</u>	2 1 1 Each  Oty 80 12 68 37 37 Each	117.0000 Loc Code	2	2		m	10 07	n &
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# **Dart Aerospace Ltd WORK ORDER CHANGES** W/O: **Approval Approval** DATE STEP PROCEDURE CHANGE By Qty Date Chief Eng / QC Inspector Prod Mar Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_ Date: \_\_\_\_\_ \_\_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_ Resolution: WORK ORDER NON-CONFORMANCE (NCR) NCR: **Corrective Action** Section B **Description of NC** Verification **Approval Approval** DATE STEP Sign & **Action Description** Initial Section A QC Inspector Section C Chief Eng Date Chief Eng Chief Eng

Picklist Print  July 8, 2010 8:55:06 AM							İ	Page 2
Work Order ID: 60450						1		
Parent Item: D212-664-201								1
Parent Item Name: Crosstube Aft		1 :44:118 181			•	Start D	ate: 7/08/10	Required Date: 7/12/10
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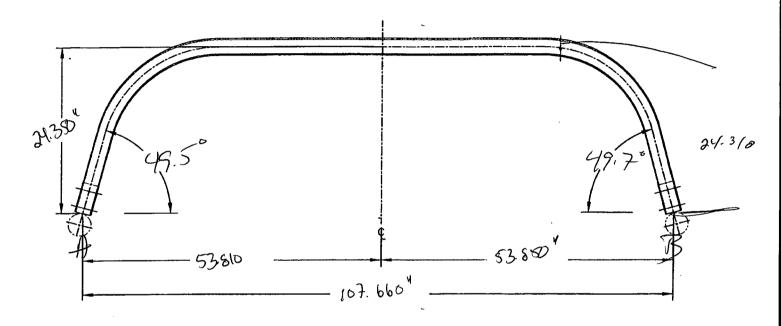
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## **Picklist Print** Page 3 July 8, 2010 8:55:06 AM Work Order ID: 60450 Parent Item: D212-664-201 Parent Item Name: Crosstube Aft **Start Date:** 7/08/10 Required Date: 7/12/10 Start Qty: 1.00 Required Qty: 1.00 AN6-40A Purchased No 250 75.0000 Each Location Loc Qty Loc Code ST343 75 M11282 112828 25 114283 50 56.0000 Purchased No 250 Each Location Loc Qty Loc Code ST344 112805 6 113288 50 July 8, 2010 8:55:06 AM **Shop Packet Print** Page 3

**Dart Aerospace Ltd** WORK ORDER CHANGES W/O: Approval **Approval** DATE STEP PROCEDURE CHANGE Βv Date Qtv Chief Eng / QC Inspector Prod Mar Part No: PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_ Date: \_\_\_\_ Disposition: QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_ Resolution: **WORK ORDER NON-CONFORMANCE (NCR)** NCR: **Corrective Action** Section B Verification Description of NC **Approval Approval** DATE **STEP** Sign & **Action Description** Initial Section A Section C Chief Ena QC Inspector Date Chief Eng Chief Eng

DART AEROSPACE LTD	Work Order:	60450.
Description: Crosstube High Aft (205/212)	Part Number:	D212-664-201
Inspection Dwg: D212-664-241 Rev: D		Page 1 of 1

Required Dimension	Min	Max		
Height	24.17	24.43		
1/2 Span	53.59	53.85		
Angle	49	52		
Total Span	107.18	107.70		



	Comments	5	
			 _
QC15 Inspection	$\mathcal{D}$	( ,	

Rev	Date	Change	Revised by	Approved
Α	07.02.06	New Issue	KJ/JM	
В	07.05.08	Dimensions updated per Dwg rev. C	KJ/JLM , A	
С	10.04.01	Dwg Rev updated	KJ 9	1/



Item	Qty -241	Qty -241B	Part Number	Description
1	X		D212-664-241	CROSSTUBE ASSEMBLY (205/212 HIGH AFT)
2		Х	D212-664-241B	CROSSTUBE ASSEMBLY (214 HIGH AFT)
3	1	1	D6006-129	CROSSTUBE
4	2	2	D2940-1	SUPPORT
5	4	4	D3595-063-530	RUBBER CUSHION
6	4	4	MS21920-28	CLAMP (OR MS21920-30)
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

#### **GENERAL NOTES:**

1) MATERIAL: MANUFACTURED FROM D6006-129

FINISHED LENGTH = 124.362±0.020

CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2

- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.
- WEIGHT: D212-664-241 = 44.2 lbs (PER IIN-D212-664) D212-664-241B = 44.2 lbs (PER IIN-D212-664)
- PART IS SYMMETRIC ABOUT CENTERLINE.
- 9) RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 5 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) INSTALL D2940-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2940-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 13) INSTALL MS21920-28 CLAMPS (OR -30) WITH D3595-063-530 RUBBER CUSHIONS TO SECURE THE D2940-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE.
- 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY, CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENIMENT WITHOUT NOTICE WORK ORDER NO. 60 450 C 2 10/7/8

D	REFORMAT/REVISE GENERAL NOTES/PART LIST; REORGANIZED VIEWS AND REFORMATTED DRAWING TO CURRENT STANDARDS; ADD -2418 (ZN D4-2, B4-2); REMOVED REF & ADD TOLERANCES (ZN D8-3 & C4-3, C6-3 & A8-3); RELOCATED FLAG #6 PÉR PAR 08-046 (ZN A5-3); MOVED TURNING DETAIL & UPDATED TOLERANCE TO SHEET 4							
С		VE -1009 ABF	PH	07.03.08				
8	ADD H SKIDTI		OMPATABILITY WITH BHT/AA	PH	05.02.04			
Α	NEW IS	SSUE		PH	00.12.12			
REV.			DESCRIPTION	BY	DATE			
DESIGN	4	PH	DART AEROSE	ACE	LTD			
DRAWN RF				HAWKESBURY, ONTARIO, CANADA				
CHECKED 47		P	DRAWING NO.	NG NO. RE				
MFG. APPR,			D212-664-241	5	SHEET 1 OF			
APPRO	VED	10	TITLE		SCAL			

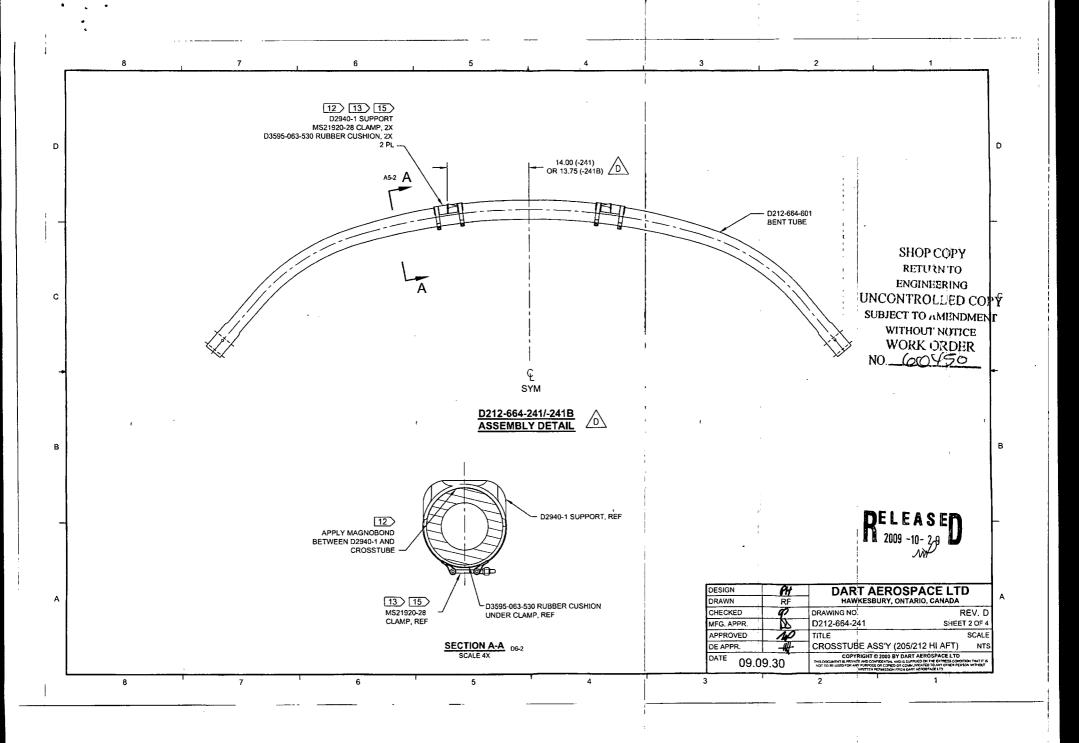
CROSSTUBE ASS'Y (205/212 HI AFT)

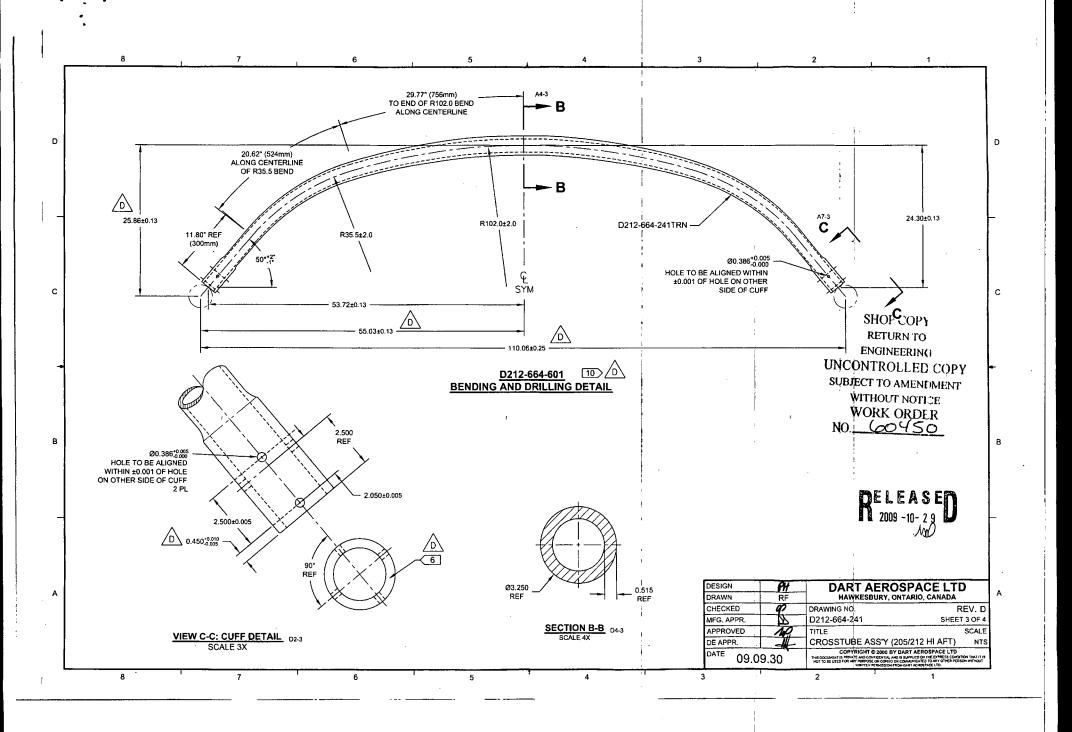
COPYRIGHT © 2000 BY DART AEROSPACE LTD

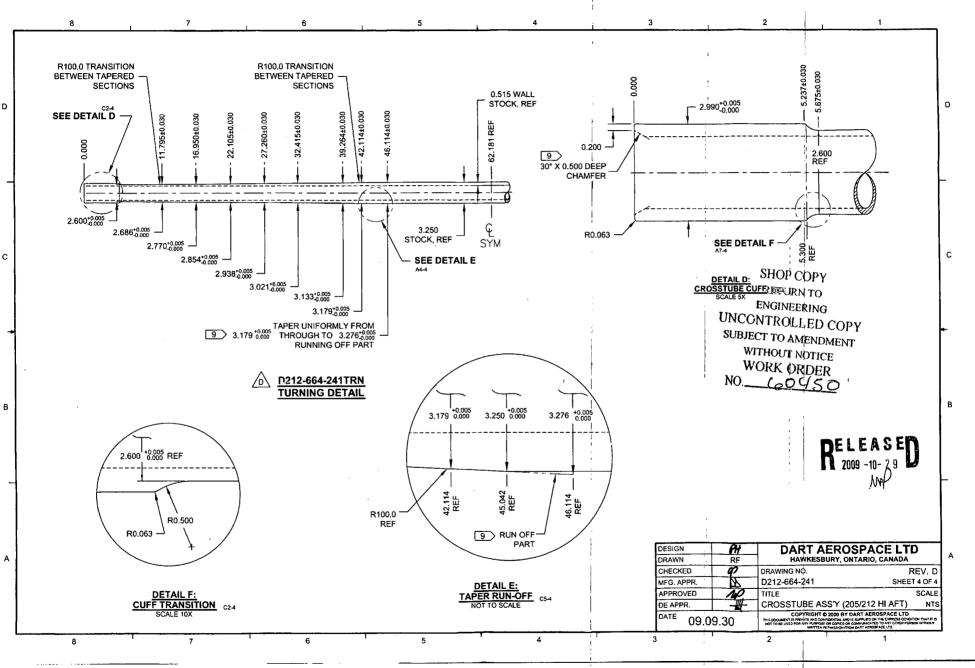
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DE APPR.

09.09.30









# LIQUID PENETRANT TEST REPORT

P- 15183

ACUREN		1
		PAGE 1 OF 1
_ · · · · · · · · · · · · · · · · · · ·	Jaly Acrosfor	DATE July-12-2010 TIME AM & PM 0
CLIENT	JACT MEWSTACE	ACUREN JOB NO. 188-10-6801
	LINDA/CHANTEL 1270 ABENDEEN ST	PO/WO No. 172 309
Address	Hankes Buy ON.	WORK LOCATION HAWKE SBURY - ON, SHOT
<u> </u>	KOH 1K7	ACCEPTANCE STD. 45711 1417 REV./DATE 2007
PROJECT -	F. P. T.	ON CEOSS TUBES.
ITEM(S) EXAMINED	5 (	N175.
JOB DESCRIPTION	PROCEDURE No. LT-002 REV./DATE	TECHNIQUE NO. LT (Sett 2. Rev./Date
Part No.		MATERIAL ALCIDINE ALLIGINALITHICKNESS
SCOPE ; )	JET FLOURESCENT L	IQUID PENETRANT INSPECTION
	CARLED OUT 100%	EXTENNAL.
TEST DETAILS		
METHOD	☐ FLUORESCENT ☐ VISIBLE	WATER WASH ☐ SOLVENT REMOVABLE ☐ POST EMULSIFIED  BLACK LIGHT S/N /645 ☐ OUTPUT > 1000 µ W/cm² ☐ AMBIENT < 2 fc
FAMILY BRAND PENETRANT	MASNAFLUX 2LG7 MINIMUM DWELL TIME 4510 MIN.	LIGHTING EQUIP.   FLASHLIGHT  TROUBLELIGHT  OUTPUT>100 fc  SURFACE
PENETRANT REMOVES		OTHER LABLUC
	MINIMUM DWELL TIME 10 MIN.	LIGHT METER S/N 1098866 CAL DUE DATE 007 19
DEVELOPER TYPE  TEST SURFACE	M Non Aqueous	
SURFACE CONDITION	☐ AS GROUND ☐ AS WELDED	MACHINED ☐ SHOT BLASTED ☐ CLEAN BARE METAL
SURFACE TEMPERATU	RE □ < - 4°C/ 20°F □ - 4°C/ 20°F to 10°C/50°  (□ Metric □ Imperial)	F
1 - Closs  1 - Closs  1 - Closs  Closs  1 - Closs  The agreement of Acuren Growth all descriptions, comment representations or warranties, data or other information pro-	s and expressions of opinion reflect the opinions or observations of Activen Group Inc. Activen Group Inc. is not assuming any responsibilities of the owner/operator and the sided by Activen Group Inc. In no event shall Activen Group Inc.'s liability in respect o	
10, 1 1	wided, Acuren Group Tite, itses the degree; care and skill-ordinarily exercised under sin	illar circumstances by others performing such services in the same or similar locality. No other warranty, expressed or
SIGNATURES		0 4 2 0
CLIENT REPRESENT	ATIVE Jason Murdoch	/2011 DTR# E 27417
TECHNICIAN (SIGNATE	PBINT	SIGNATURE
NAME (PRINT):	MKE JEHNSTON	REVIEWED BY: NAME INITIALS
, ,	1 <sup>N</sup> TECHNICIAN CGSB LEVEL SNT LEVEL CGSB LI	
!	CGSB REG. NO 666 CGSB R	EG. NO

Work Order ID 64547 December 21, 2010 2:30:32 PM											
Item ID: Revision ID: Item Name: Start Date: Required Date:	• •		Accept	Cust Item 11 Customer:		,	Setup Star Stop				
Approvals:	Process Plan:QC:				te:	-	Run Star Stop				
Sequence ID/ Work Center II  110 Crosstubes Crosstubes	Sept.	Memo -BUFF CORROSION -ACID ETCH AND ALODIT -RE-PRIME UNDER SUPPO	Set Up/ Run Hours 0.00  0.00  NE DRTS, REINSTALL SUPPORTS To dry For 4hr wasen the	Tool ID  11-1-6  5 min } 27			Reject Qty	Reject Insp. Number Stamp			
\[\langle \langle \lan	-7BCS - 1006	par DSI  New Suntration - Work Order Re		50		C L.	11/01/10 h/e 10 (				

Memo

# Dart Aerospace Ltd

W/0:16	4547	WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
1)-01-6	(10	prime inside of osiginal supports leave extenior 5/5	8	(1-01-10	×2	1.01.11	Sulalu				
11-01-10	110	install new clamps MS 21920-28 B M 114749 install new cubban strips 03595-063-530 B 59581	2	U-0(-10		1.01	S world				

Part No: D212-664-201 PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
Resolution:	Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
DATE S	T	Description of NC		Corrective Action Section E	Verification	Approval	Approval					
	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector				
					,		i					
				·								

# Work Order ID 64547

December 21, 2010 2:30:33 PM



Page 3

Item ID:

D212-664-201

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Crosstube Aft

**Start Date:** Required Date: 12/09/10

12/08/10

Start Qty: 1.00

Req'd Qty: 1.00

Operation

Description

**Cust Item ID:** 

**Customer:** 

CU-DAR001

Reference:

RMA RA110139

**Approvals:** 

QC:

Process Plan:

Date: Date:

SPC (Y/N):

Set Up/

**Run Hours** 

**Tooling:** 

Date:

Date:

Run

Start



Stop

Sequence ID/

Work Center ID

1150

Packaging Packaging

Memo

0.00

0.00

PACKAGE, RETURN TO CUSTOMER

Tool ID

Tool # Plan

Accept Qty Code

Reject Qty

Reject Number

Insp. Stamp

ac 21 -

# **Picklist Print**

December 21, 2010 2:30:31 PM

Work Order ID: 64547

Parent Item:

D212-664-201

Parent Item Name: Crosstube Aft



**Start Date: 12/08/10** 

Required Date: 12/09/10

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:E□04.02.16 □ Reformat□K/DS

IPP Rev:F 06-03-29

Remove Coments on Pick List JLM

IPP Rev:G 07-04-30

As per Rev C

JLM

IPP Rev:H 08-05-22 up date Qty of rubber cushion DD verified by:EC													
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D212-664-201		Manufactured	No				Each	10.0000		1			
				Location		Loc C	<u>Oty</u>	Loc Code					
				FG			1		_		_		
					38844		1		_		_		
					39659		1				<b></b>		
					60449		1						

FG103 60523 60524 60557 61738 61739 63538 63539

prince under suffic

### L Lacelle

From:

Bill Beckett [bbeckett@dartaero.com]

Sent:

December 20, 2010 12:55 PM

To:

'Peggy McDonald'; swillems@dartaero.com; 'L Lacelle'

Cc:

'Marc Bellavance'; Jason Murdoch; 'Stow, Dan'; Susanne Sheldon; 'Mike Petschej; 'David Shepherd'

Subject: RE: Crosstube corrosion from Expedition

Peggy - ok, this is fine.

Sian - no-charge on a CSR. Please indicate ship date (talk to LL).

Linda – pls prepare work order NB – no priming! Ensure interior is protected during etch and alodine.

Bill

From: Peggy McDonald [mailto:peggy@darths.com]

**Sent:** December 20, 2010 12:48 PM

**To:** Bill Beckett **Cc:** Marc Bellavance

Subject: Crosstube corrosion from Expedition

Importance: High

HI Bill,

I spoke with Expedition this morning about the crosstube corrosion issue.

To resolve the issue, I took your recommendation and offered the crosstube rework at no charge. (removal of the surface corrosion, acid etch and alodine)

PLEASE NOTE: the customer will do their our priming right before paint.

These can be returned the them early in the new year. I recommend a MISC no charge PO to be sent to DAS. Freight will be on the DHS account.

Please advise how you would like DHS to proceed.

Peggy

64547 60450

PLEASE NOTE OUR NEW CORPORATE OFFICE ADDRESS: 4650 North Avenue, O reanside, California 92056

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Work Order ID 64547

December 8, 2010 8:52:43 AM

Item ID:

D212-664-201

Accept



Setup Start

Stop

Stop



**Revision ID:** 

Item Name:

Crosstube Aft

**Start Date:** 

12/08/10

Start Qty: 1.00

Required Date: 12/09/10 Req'd Qty: 1.00

**Cust Item ID:** 

**Customer:** 

**Tool ID** 

CU-DAR001

Reference:

Sequence ID/

RMA RA110139

Approvals:

**Process Plan:** 

Date:

**Tooling:** 

Date:

Start Run

Operation

Date:

SPC (Y/N):

Set Up/

**Run Hours** 

Date:\_

Tool # Plan Accept

Code

Qty

Reject Qty

Reject Number

Insp. Stamp

Work Center ID Description **Draw Nbr Revision Nbr** Rev D

QC:

D212-664-241

100

Quality Control

Memo

INSPECT RA110139

0.00

0.00

## Work Order ID 64547

December 8, 2010 8:52:43 AM



Page 2

Item ID:

D212-664-201

Accept

Setup Start

**Revision ID:** 

Item Name:

Required Date: 12/09/10

Crosstube Aft

Start Date:

12/08/10

Start Oty: 1.00

Reg'd Oty: 1.00

**Cust Item ID:** 

**Customer:** 

CU-DAR001

Reference:

RMA RA110139

Approvals:

Date:

**Tooling:** 

Date:

Run

Start

Stop

Process Plan:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/

Work Center ID

Operation Description Set Up/

**Run Hours** 

Tool ID

Tool # Plan Code

Accept Qty

Reject Reject Number Qty

Insp. Stamp

110

Crosstubes Crosstubes

Verified by: m/m/ 10/11/08

0.00

0.00

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

157

					Step 1 Step 2 Step 4 Step 5
					Remove the a supports (No corrosion found) Talstrip II paint stripper coat 1 MI15424 (Picture taller) re-apply Paint stripper coat 2 MI15424 (Picture taller) used plastic squeege to remove Paint + Magnabond visually inspected no corrosion seen & Alodine intacte (Picture tallen)



## LIQUID PENETRANT TEST REPORT

	1 0				PAGE / OF /
CLIENT	MIT AFRISTACE		DATE 3	Fau. 10. 2011	TIME AM & PM Q
ATTENTION	-WDA LACECLE		ACUREN JOB NO.	188-1	, ,
Address 1	4351 NEW ST		PO/WO No.		1 3-660
i	HANKES BUY CA)		WORK LOCATION	Harries Bul	1. 3
	The Color of Color		ACCEPTANCE STD. 4		Out
PROJECT	= 2 7		ACCEPTANCE STU.	3/19 1711	Rev./Date <u>2<i>ce</i>5</u>
ITEM(S) EXAMINED	1 3 3 4 4		1000	200	
TIEW(9) EMWINED	<u> </u>	£,	CEOSSTAL USINE N	355. Loui 75	
JOB DESCRIPTION	PROCEDURE NO. LT-0(1) JR			HNIQUE NO. LT-TELAT	DOL/DATE C' C
Part No.	OCCU, Y		<del>/                                    </del>		
SCOPE	FLOULESCAUTL	- 1 Bus	12	EACHTER THICK	(NESS // D/21CEL)
	<u> </u>	1 1 /E		CAUT INSTE	مسرن وترست
TEST DETAILS	Section of the second	<u>/                                    </u>	of the wal		
METHOD	☐ FLUORESCENT ☐ VISIBLE	-	WATER WASH	☐ SOLVENT REMOV	D PACT EM III GIEIED
FAMILY BRAND	MARINAFLUX		BLACK LIGHT S/N / 5	Y OUTPUT > 1000 µ	ABLE POST EMULSIFIED  W/CM² AMBIENT < 2 fc
PENETRANT Z/	- 6 7 MINIMUM DWELL TIME 45 18	Min.	LIGHTING EQUIP. DELA	ASHLIGHT 🔲 TROUBLELIGHT	☐ OUTPUT>100 fc @ SURFACE
PENETRANT REMOVER	MINIMUM DRY TIME >10	0 Min.	OTHER LAC	5,.~0	
	NON AQUEOUS AQUEOUS []		LIGHT METER S/N	1048866	CAL DUE DATE
TEST SURFACE	NON AQUEOUS LI AQUEOUS LI	DRY			007-19-2011
All the second control of the second control	AS GROUND AS WELDED	1	The second second		
SURFACE TEMPERATURE	AS WELDED  < - 4°C/ 20°F  - 4°C/ 20°F TO  - 4°			SHOT BLASTED  10°C/50°F TO 52°C/125°F	☐ CLEAN BARE METAL ☐ > 52°C/125°F
F) /	METRIC (MPERIAL)	710 0,00 .	7	10.0/20 L 10.25 01.50 1	U > 52°U/143°F
1	- 11 - 1 - 40 C C	-			
	=-Wools 188. x 3=-W.C. 63984. X				
I tecs his	12-W.C. 63727 K				
	<b>v.</b>		•		
1- TC80357WC	SE-L1.63573 1			•	
is -constal	BE-W.J. 63524 /	-		· · · · · · · · · · · · · · · · · · ·	
) 1				egin of the second	
1 FCC35> T. 2	Rolling Lyett	.			•
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7 TUEN 1010	F-11.06 035 2 7		en en en en en en en en en en en en en e		
	111				
生 医乳化三唑	HT FORMENLOWE IN	1			
-C.C. 6	3456-03687-1				
1 1400 0	3002-3 1		•		
cope of Services					
	perform services extends only to those services provided for in v ressions of opinion reflect the opinions or observations of Acure				
ata or other information provided by Ac	Froup Inc. is not assuming any responsibilities of the owner/ope curen Group Inc. In no event shall Acuren Group Inc.'s liability				re not intenued not can incy to constituce on ture, repair and use decisions as a result of the
tancara or Care					,
oplied, is made or intended by Acaren C	tren Group Inc. uses the degree, care and skill ordinarily exerci. Group Inc.	sed under simaai	· circunstances by others perjorm	ring such services in the same or similar	locality. No other warranty, expressed or
SIGNATURES					
LIENT REPRESENTATIVE	Can Titley	1	To to I	DTR#	E63240
ECHNICIAN (SIGNATURE):	PRINT	-	SIGNATURE (		<u> </u>
EUTINICIAN (SIGNATURE).	-/4/1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			REPORT REVIEWED BY:	
IAME (PRINT):	- A.C. SHUSTOW			NAI	ME INITIALS
	1st TECHNICIAN CGSB LEVEL SNT LEVEL	200715	2 <sup>(3)</sup> TECHNICIAN		
	CGSB LEVEL SNT LEVEL CGSB REG. NO	CGSB LEVEL			
		COOD INEG. I			

Item	Qty -241	Qty -241B	Part Number	Description
1	Х		D212-664-241	CROSSTUBE ASSEMBLY (205/212 HIGH AFT)
2		Х	D212-664-241B	CROSSTUBE ASSEMBLY (214 HIGH AFT)
3	1	1	D6006-129	CROSSTUBE
4	2	2	D2940-1	SUPPORT
5	4	4	D3595-063-530	RUBBER CUSHION
6	4	4	MS21920-28	CLAMP (OR MS21920-30)
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

#### **GENERAL NOTES:**

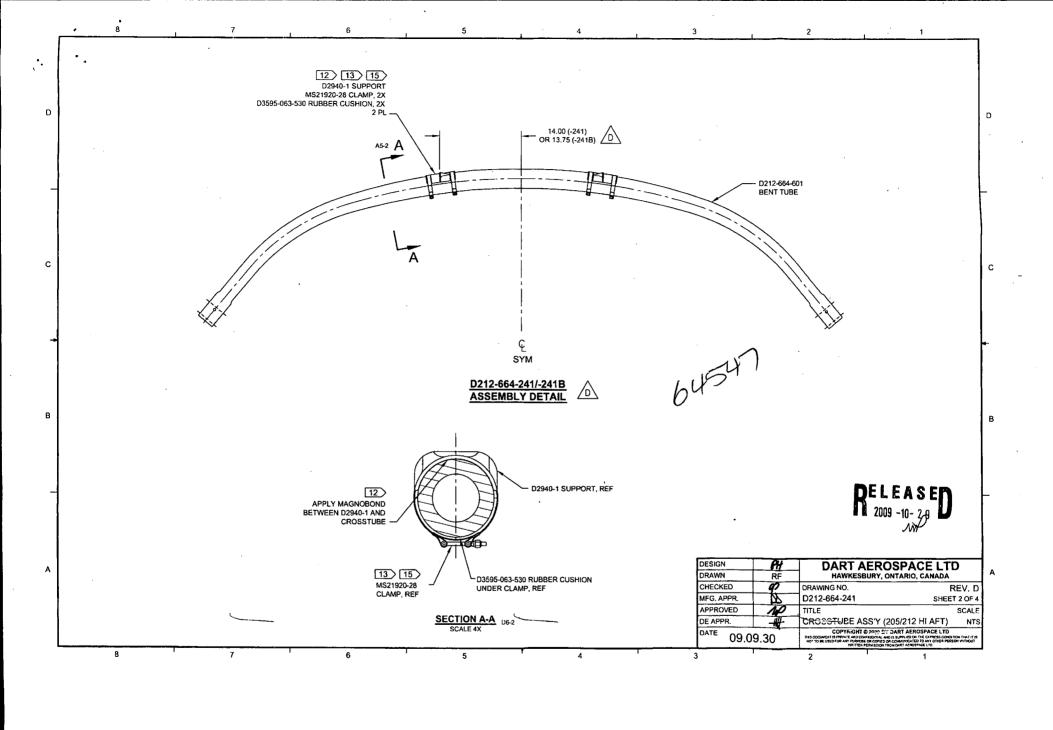
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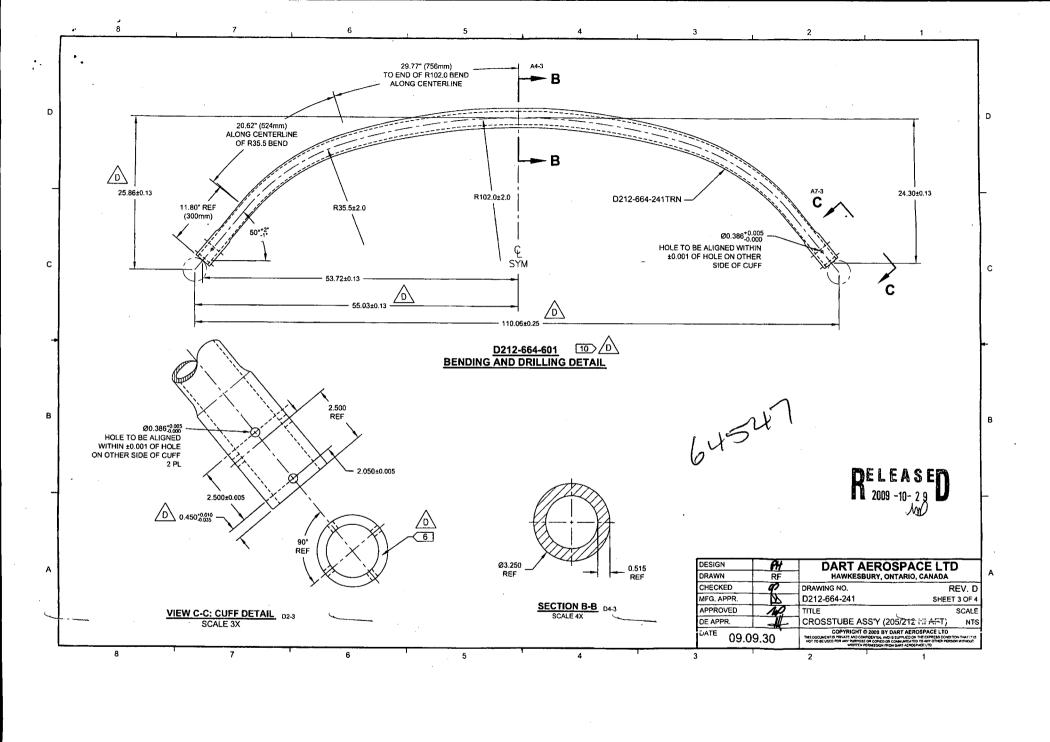
- 1) MATERIAL: MANUFACTURED FROM D6006-129 FINISHED LENGTH = 124.362±0.020
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
- PAINT OUTSIDE PER DART QSI 005 4.2 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.
- WEIGHT: D212-664-241 = 44.2 lbs (PER IIN-D212-664) D212-664-241B = 44.2 lbs (PER IIN-D212-664)
- 8) PART IS SYMMETRIC ABOUT CENTERLINE.
  9) RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 5 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) INSTALL D2940-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2940-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
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- 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

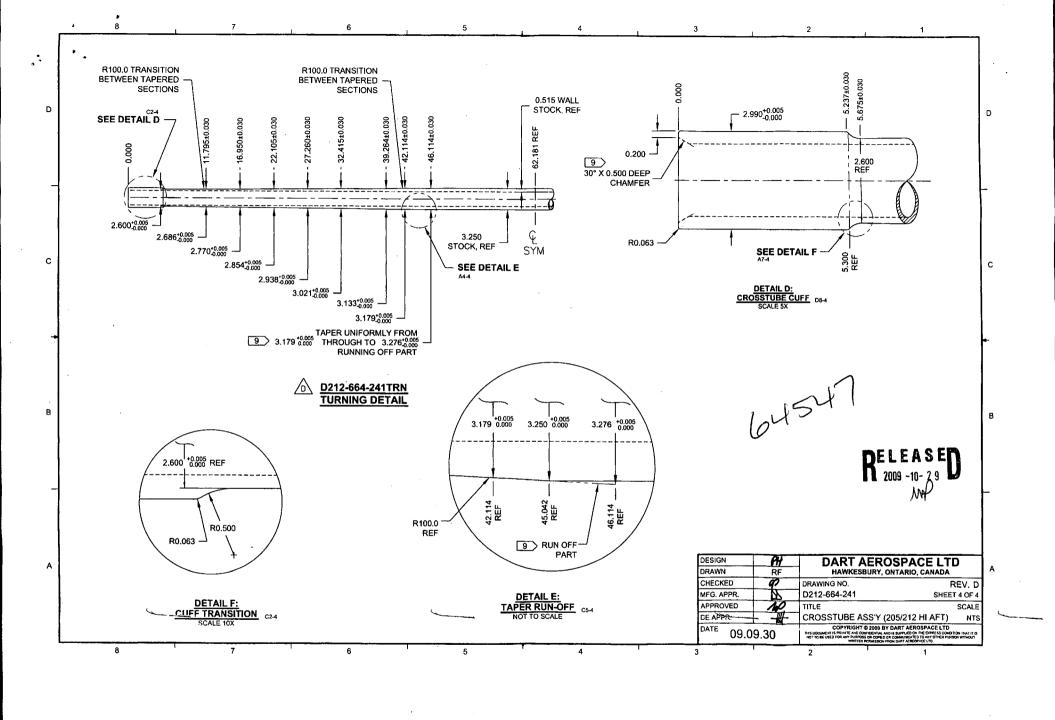


С

						i			
D	REORG TO CUP REMOV C6-3 &	ANIZED VIEWS RENT STÄND ED REF & ADD A8-3); RELOCA MOVED TURNII	GENERAL NOTES/PART LIST; VS AND REFORMATIED DRAWING DARDS; ADD -241B (ZN D4-2, B4-2); ID TOLERANCES (ZN D8-3 & C4-3, ATED FLAG #6 PER PAR 08-046 (ZN ING DETAIL & UPDATED TOLERANCE						
С		REMOVE -1009 ABRASION STRIP; ADD MAGNOBOND PH 07,03.08							
В	ADD H	OLES FOR CO JBES	PH	05.02.04					
Α	NEW IS	SSUE		PH	00.12.12	ı			
REV.			DESCRIPTION	BY	DATE	ı			
DESIGN		_ PH	DART AEROSP	ACE	LTD	Ĺ.			
DRAWN		RF	HAWKESBURY, ONTAR	O, CAN	ADA	^			
CHECK	ED	97	DRAWING NO.		REV. D	ı			
MFG. AF	PR.	77	D212-664-241 SHEET 1 OF						
APPRO'	VED	10	TITLE SCALE						
DEAFT	<del></del>	4	CROSSTUBE ASS'Y (205/212 HI AFT) NTS						
DATE	09.0	9.30	THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED	COPYRIGHT © 2000 BY DART AEROSPACE LTD  HISDOCIMENT IS PRIVATE AND COMPRESSITING AND THE EXPERTS CONDICTION THAT IT IS  NOT TO BE USED FOR ANY PURPOSE OR CONFIDENCE OR COMMAND AND THE ORDER OF THE PURPOSE OR PRIVATE OR COMMAND AND THE ORDER OF THE ORDER ORDER OF THE ORDER OF THE ORDER OF THE ORDER OF THE ORDER OF THE ORDER OF THE ORDER OF THE ORDER OF THE ORDER OF THE ORDER OF THE ORDER OF THE ORDER OF THE ORDER OF THE ORDER OF THE ORDER ORDER OF THE ORDER ORDER OF THE ORDER ORD					







#### **Kim Johnston**

From:

L Lacelle < llacelle@dartaero.com>

Sent:

Wednesday, January 12, 2011 9:04 AM

To:

'Kim Johnston'

Subject:

FW: Crosstube corrosion from Expedition

That's for the 2 w/o;'s you rec'd yesterday

From: the.sheldons@sympatico.ca [mailto:the.sheldons@sympatico.ca] On Behalf Of Susanne Sheldon

Sent: January 12, 2011 8:22 AM

To: 'L Lacelle'

Cc: 'Stow, Dan'; swillems@dartaero.com; 'Marc Bellavance'; 'Jason Murdoch'; 'David Shepherd'; 'Bill Beckett'

Subject: RE: Crosstube corrosion from Expedition

I suggest keeping the same batch number and reference the re-work work order on the old work order for traceability Susanne

From: L Lacelle [mailto:llacelle@dartaero.com]

**Sent:** January 11, 2011 8:47 AM

To: 'Susanne Sheldon'

Cc: 'Stow, Dan'; swillems@dartaero.com; 'Marc Bellavance'; 'Jason Murdoch'; 'David Shepherd'; 'Bill Beckett'

Subject: RE: Crosstube corrosion from Expedition

Importance: High

So these have been NDT'd and supports re-installed, all of this was done on w/o's, so my question is, do we send them out under the new B/N? IF we do, this will screw up our costs of D212-664-101 & -201, as there was no cost entered in the RMA. Any suggestions?

LL

From: David Shepherd [mailto:dshepherd@dartaero.com]

Sent: January 5, 2011 5:21 PM

To: 'Jason Murdoch'; 'L Lacelle'; 'Marc Bellavance'

Cc: 'Stow, Dan'; 'Susanne Sheldon'; 'Mike Petsche'; swillems@dartaero.com; 'Bill Beckett'

Subject: RE: Crosstube corrosion from Expedition

Jason,

I would recommend that we NDT them.

David

From: Jason Murdoch [mailto:jmurdoch@dartaero.com]

Sent: Wednesday, January 05, 2011 1:59 PM

To: 'L Lacelle': 'Marc Bellavance'

Cc: 'Stow, Dan'; 'Susanne Sheldon'; 'Mike Petsche'; 'David Shepherd'; swillems@dartaero.com; 'Bill Beckett'

Subject: RE: Crosstube corrosion from Expedition

Will these tubes be NDT'd before they ship back to the customer? I do not want DART being held responsible for any issues that might occur down the road.....ya mean?

Jason Murdoch Quality Coordinator imurdoch@dartaero.com DART Aerospace Ltd. 613-632-5200

From: L Lacelle [mailto:llacelle@dartaero.com] Sent: Wednesday, January 05, 2011 1:55 PM

To: 'Marc Bellavance'

Cc: 'Jason Murdoch'; 'Stow, Dan'; 'Susanne Sheldon'; 'Mike Petsche'; 'David Shepherd'; swillems@dartaero.com; 'Bill

Beckett'

Subject: RE: Crosstube corrosion from Expedition

With everyone gone for the last couple of weeks no one really touched them. They will get ground today, and alodined and we should be able to ship out by Friday.

LL

From: Marc Bellavance [mailto:mbellavance@dartaero.com]

Sent: January 5, 2011 1:49 PM

To: 'L Lacelle'

Cc: 'Jason Murdoch'; 'Stow, Dan'; 'Susanne Sheldon'; 'Mike Petsche'; 'David Shepherd'; swillems@dartaero.com; 'Bill

Beckett'

Subject: RE: Crosstube corrosion from Expedition

Importance: High

Linda,

Where are we with this? Customer wants to know.

#### Marc Bellavance Technical/Shop Support

**DART** aerospace Ltd.

Tel: 613-632-5200 Ext. 243

Cel: 613-676-0992 Fax: 613-632-9311

E-mail: mbellavance@dartaero.com

Web: www.dartaero.com

Product Documentation: Verify Revision Status/Download HERE!



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From: Bill Beckett [mailto:bbeckett@dartaero.com]

Sent: December 20, 2010 12:55 PM

To: 'Peggy McDonald'; swillems@dartaero.com; 'L Lacelle'

Cc: 'Marc Bellavance'; Jason Murdoch; 'Stow, Dan'; Susanne Sheldon; 'Mike Petsche'; 'David Shepherd'

Subject: RE: Crosstube corrosion from Expedition

Peggy – ok, this is fine.

Sian – no-charge on a CSR. Please indicate ship date (talk to LL).

Linda – pls prepare work order **NB – no priming!** Ensure interior is protected during etch and alodine.

Bill

From: Peggy McDonald [mailto:peggy@darths.com]

Sent: December 20, 2010 12:48 PM

**To:** Bill Beckett **Cc:** Marc Bellavance

**Subject:** Crosstube corrosion from Expedition

Importance: High

HI Bill,

I spoke with Expedition this morning about the crosstube corrosion issue.

To resolve the issue, I took your recommendation and offered the crosstube rework at no charge. (removal of the surface corrosion, acid etch and alodine)

PLEASE NOTE: the customer will do their our priming right before paint.

These can be returned the them early in the new year. I recommend a MISC no charge PO to be sent to DAS. Freight will be on the DHS account.

Please advise how you would like DHS to proceed.

Peggy

#### PLEASE NOTE OUR NEW CORPORATE OFFICE ADDRESS: 4650 North Avenue, Oceanside, California 92056

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61001 Hwy 11 west, P.O. Box 160 Cochrane, ON P0L 1C0 Phone: 1-705-272-5755 Fax: 1-705-272-5752 guylain@expéditionhelicopters.com

Packing Slip				
Packing Slip No.	1285			
Date	Dec 3, 2010			
Created By	Suzanne			
T	RMA#RA110139			
Туре	"SQ10210"			
Currency	USD			
Page	1/1			

# RMA#RA110139 "SQ10210" #1285

То	Order from
DART HELICOPTER SERVICES	190 HWY 11 WEST PO.BOX 160 COCHRANE, ONTARIO POL1C
1270 ABERDEEN STREET	
HAWKESBURY, ONTARIO K6A 1K7	Tel: (705)-272-5755, Fax: (705)-272-5752
CANADA	
Tel: 613-632-3336, Fax: 613-632-4443 OR 800-556-4166	
Ship to	Bill to
SAME	SAME
190 HWY 11 WEST, PO BOX 160	190 HWY 11 WEST, PO BOX 160
COCHRANE, ONTARIO	COCHRANE, ONTARIO
POL 1CO	POL 1CO
Tel: (705) 272-5755, Fax: (705) 272-5752	Tel: (705) 272-5755, Fax: (705) 272-5752

·	
	** Work to be accomplished at this time **
	Work to be accomplished at this time
Please, perform RMA#RA110139 "SQ102	210"
1 loude, perionin term in a correct out to	

## **Parts description**

Part Num	ber	Description	Tracking #	Ser/Batch #	TTSN	TTSO	Reg	Est. Cost
D212-664-10	01	CROSSTUBE FWD	11898	B60522			C-FMQN	0.00
Defect	ТОВ	E SENT TO DART HELIC	OPTERS FOR W	ARRANTY EVALU	ATION AS P	ER JEAN KE	RR	
	1	JRN AUTHORIZATION #F	RA110139					
	"SQ1	0210"						

Part Num	ber	Description	Tracking #	Ser/Batch #	TTSN	TTSO	Reg	Est. Cost
D212-664-20	)1	CROSSTUBE AFT	11899	B60450			C-FMQN	0.00
Defect	RETU	E SENT TO DART HELIC JRN AUTHORIZATION # 0210"		ARRANTY EVALU	ATION AS P	ER JEAN KE	ERR	

Molhoult
Signature

Dec 3/10



4650 North Avenue, Oceanside, CA 92056 Tel: 1-760-295-6094 Fax: 1-760-295-9117 E-mail: sales@darths.com

## RETURN AUTHORIZATION

Date:

Dec. 03/10

To:

**Expedition Helicopters Inc.** 

Attention:

**Guylain Tremblay** 

E-Mail:

guylain@expeditionhelicopters.com

From:

Jean

#### Dear Guylain

Please find below the instructions to return the D212-664-101/201 ordered on your Purchase Order 2427.

- 1. Your Return Authorization Number is **RA110139**. Please make reference to this number on all paperwork. Items must still be in original packaging. Please label the crosstubes with "**SQ10210**".
- 2. The Original Release Certificate, STC's, Installation Instructions, Maintenance Manual Supplement, Flight Manual Supplement, and packing slips must accompany the shipment.
- 3. Please mark the shipping labels to:

Dart Aerospace, 1270 Aberdeen Street, Hawkesbury, Ontario. Canada K6A 1K7

Tel.: 1-613-632-5200

4. Brad from Journey Freight (tel 514-447-0242, ext. 3242) will contact you for the pick up of the crosstubes. This Return Authorization expires in 30 days. The Quality Control at Dart Aerospace will evaluate the crosstubes and will notify you once completed.

If you require additional information, please feel free to contact us. **DART HELICOPTER SERVICES, LLC** is always pleased to assist you with your helicopter needs.

Best Regards,

Jean Kerr
Sales Support
DART HELICOPTER SERVICES, LLC





Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 5200 Fax: 613 632 5246 Packing Slip Number : INV102995

Customer Purchase Order ID: 7601/2427

Sales Order ID: SO103029

Ship Date: 8/24/2010 12:58:00 PM

Page Number :2

Bill To: CU-DAR001

DART HELICOPTERS SERVICES LLC.

1736 ORD WAY

OCEANSIDE, CA 92056

US

Ship To:

EXPEDITION HELICOPTERS, INC.

190 HWY 11 WEST

COCHRANE, ON POL 1CO

CA

Contact Name:

Suzanne Arsenault

**Contact Phone:** 

705 272 5755

Contact Phone Ext.:

Order Date:

Bill of Lading:

Buyer:

8/24/2010 12:46:25 PM **FOB:** 

Manitoulin Ground Coll Territory:

Origin CA Central Ship From: MAIN WAREHOUSE

DART AEROSPACE LTD

Pallets 0

0

0

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7 CANADA

Cartons

Weight

Ship From Phone:

613 632 5200

Line /	Item ID/	Item Name	Harmonize Code:	Reg. Date	Req. Qty	Ship Oty Ba	
Cust PO Line 4	D205-634-011		8803.20	8/24/2010	1.0000	1.0000	0.0000
4	Skidtube				Each	Each	

Special Instructions:

Lot Number

Lot Trans Oty

60690

1.0000

As per FAA STC requirement, this is written evidence that Dart Aerospace Ltd. gives the above Ship-to permission to use the STC(s) for the above shipped part(s) to alter the product listed in the STC(s).

Special Instructions for Sales Order:



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 5200 Fax: 613 632 5246 Packing Slip Number: INV102995

Customer Purchase Order ID: 7601/2427

Sales Order ID: SO103029

Ship Date: 8/24/2010 12:58:00 PM

Page Number:1

Bill To: CU-DAR001

DART HELICOPTERS SERVICES LLC.

**1736 ORD WAY** 

OCEANSIDE, CA 92056

US

Ship To:

EXPEDITION HELICOPTERS, INC.

190 HWY 11 WEST

COCHRANE, ON POL 1CO

CA

Contact Name:

Suzanne Arsenault

Contact Phone:

705 272 5755

Contact Phone Ext.:

Buyer:
Order Date:

Bill of Lading:

8/24/2010 12:46:25 PM **FOB:** 

Manitoulin Ground Coll Territory:

Origin

0

0

0

Ship From: MAIN WAREHOUSE

\_ . \_ .

CA Central

DART AEROSPACE LTD

1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CANADA

Pallets Cartons

Weight

Ship From Phone:

613 632 5200

Line / Cust PO Line	Item ID / Nbr Cust Item ID	Item Name	Harmonize (	Code:	Req. Date	Req. Qty		ackordered ty
1	D212-664-101		8803.20		8/24/2010	1.0000	1.0000	0.0000
1	Crosstube Fwd					Each	Each	
Special				Lot Number			L	ot Trans Oty
Instructions:				60522				1.0000
_	2010 ((1.001		8803.20		0/24/2010	1 0000	1.0000	0.0000
2 2	D212-664-201 Crosstube Aft		0003.20		8/24/2010	1.0000 Each	1.0000 Each	0.0000
2	Clossiude Ait					Lacii	Lacii	
Special				Lot Number			<u>L</u>	ot Trans Oty
Instructions:				60450				1.0000
3	D205-634-011		8803.20		8/24/2010	1.0000	1.0000	0.0000
3	Skidtube				. <b>.</b>	Each	Each	
Special				Lot Number			<u>L</u>	ot Trans Qty
Instructions:				59280				1.0000

As per FAA STC requirement, this is written evidence that Dart Aerospace Ltd. gives the above Ship-to permission to use the STC(s) for the above shipped part(s) to alter the product listed in the STC(s).

Special Instructions for Sales Order:

1. A	pproving Civil Aviation Authority/Country:	<sup>2.</sup> AUTHOR	RIZED RELEAS	SE CERT	IFICAT	3. Form Tracking No:		
Tran	sport Canada		FORM ON			- <del></del>	SO103029-2	
1270 A Hawke			O Aberdeen Street Fax		3 632 5200 3 632 5246 aero.com		5. Work Order/Contract/Invoice 7601/2427	
6. Item:	7. Description:	8. Part	t No:		9. Quantity:	10. Serial/Batc	h No:	11. Status/Work:
1	Crosstube Aft	D212-6	64-201		1	B60450		New
12. Remar	ks:				<u> </u>		<del></del>	
X A		ed above were manufactured are in a condition for safe op specified in Block 12.		☐ Off	at unless otherw	pecified in Block I	ack 12 the work	Littlentified in Block 11
13b. Signa	ture.			and describ	cu ni biock 1278	as been performe	l in compliance	with the Canadian
		1 \$ tc.	13c. Approved Organization Number: 9-89	14b. Signature	: N/A	$\nearrow$	14c. Appro Number:	ved Organization
13d. Name Suzanne Be			13e. Date (dd/mmm/yyyy): 24/Aug/2010	14d. Name:	N/A		14e. Date (c	dd/mmu/yyyy): N/A
(Previous	sly form 24-0078)							
This cer	tificate does not constitute	e authority to install.	Installer Re	sponsibilities			II	mportant: See notes
Installer specified	s working in accordance v	vith the national regulations	of a country other than that specific ertification. In all cases, the technic y be flown.	ed in block 1 must en	sure that their re	gulations recogni	ze certifications	from the country

1. A	pproving Civil Aviation Authority/Country:	<sup>2.</sup> AUTHOR	IZED RELEAS	E CERT	IFICAT	3. Form Tra	3. Form Tracking No:		
Tran	sport Canada		FORM ONE	E S				SO103029-1	
1270			EROSPACE LTD erdeen Street oury, ON, K6A 1K7 Canada	Fax: 1 613	Tel: 1 613 632 5200 Fax: 1 613 632 5246 www.dartaero.com		5. Work Order/Contract/Invoice 7601/2427		
6. Item:	7. Description:	8. Part	8. Part No:			10. Serial/Batc	h No:	11. Status/Work:	
1	1 Crosstube Fwd D212-664-101		54-101		9. Quantity: 10. Serial/Bat  1 B60522		New		
12. Remar	·ks:								
X A		ed above were manufactured are in a condition for safe op specified in Block 12		□ or		pecified in Block			
		opeonica in Block 12.		Certifies th and describ Aviation R	zeu in Biock 12 k	ise specified in Bloas as been performe	ock 12, the wor	Lidentified in Block 11 e with the Canadian	
13b. Signa		× #16	13c. Approved Organization Number: 9-89	14b. Signature	··· N/A		14c. Appro Number:	oved Organization	
Suzanne Redford			13e. Date (dd/mmm/yyyy): 24/Aug/2010	14d. Name:	N/A		14e. Date	(dd/mmm/yyyy): N/A	
(Previou	sly form 24-0078)								
	rtificate does not constitut s working in accordance v		Installer Res		sure that their re	gulations recogni		Important: See notes	
			rtification. In all cases, the technica y be flown.					T .	

Tallion, Country.		<sup>2.</sup> AUTHOR	ORIZED RELEASE CERTIFICATE					3. Form Tracking No:	
Transport Canada			FORM ONE				SO103029-4		
4. Organizations Name and Address:  DART AEROSPACE LTD 1270 Aberdeen Street Hawkesbury, ON, K6A 1K7 Canada				Tel: 1 613 632 5200 Fax: 1 613 632 5246 www.dartaero.com			5. Work Order/Contract/Invoice 7601/2427		
6. Item: 7. Description: 8. Part			No:		9. Quantity:	10. Serial/Batc	h No:	11. Status/Work:	
1 Skidtube D205-63			34-011		1	B60690		New	
12. Remar	ks:							<u> </u>	
X A		ied above were manufactured l are in a condition for safe op a specified in Block 12.	14a: CAR 571.10 Maintenance Release  Other regulations specified in Block 12  Certifies that unless otherwise specified in Block 12, the work-identified in Block 11 and described in Block 12 has been performed in compliance with the Canadian						
				Aviation F	Regulations.	sas been periorme	d in computanc	e with the Canadian	
13b. Signa		1 #10	13c. Approved Organization Number: 9-89	14b. Signatur	e: N/A	$\nearrow$	14c. Appi Number:	roved Organization ${f N/A}$	
13d. Name:			13e. Date (dd/mmm/yyyy): 14d. Nam				14e. Date (dd/mmm/yyyy):		
Suzanne Bedford			24/Aug/2010		N/A			N/A	
(Previou	asly form 24-0078)	-					L	Important: See notes	
This ce	rtificate does not constitu	ite authority to install.	Installer Res	ponsibilities					
	rs working in accordance		of a country other than that specifie	d in block 1 must e	nsure that their i	egulations recogn	ize certificatio	ns from the country	
Stateme with the	ents in blocks 13a or 14a o e applicable national regu	do not constitute installation co clations before the aircraft ma	ertification. In all cases, the technica y be flown.	al record for the ai	rcraft must conta	in an installation	certification iss	sued in accordance	

1. A <sub>I</sub>	oproving Civil Aviation Authority/Country:	<sup>2.</sup> AUTHOI	RIZED RELEA	SE CERT	IFICAT	TE.	3. Form Trac	cking No:
Transport Canada			FORM O	SO103029-3				
1270 Ab Hawkest		LEROSPACE LTD Tel: 1 61 erdeen Street Fax: 1 61		3 632 5200 3 632 5246 taero.com		5. Work Order/Contract/Invoice 7601/2427		
6. Item:	7. Description:	8. Part	t No:		9. Quantity:	10. Serial/Batc	h No:	11. Status/Work:
1	Skidtube	D205-6	534-011		1	B59280		New
12. Remar	ks:					<u> </u>		
13a. Certif	ies that the items identific	ed above were manufactured are in a condition for safe o		14a. CA  Off  Certifies the	R 571.10 Mainte rec regulations s at unless otherw	nance Release pecified in Block 1	ock 12 the worl	cidentified in Block 11
13b. Signature:  A A A A A A A A A A A A A A A A A A A		13c. Approved Organization Number:	Aviation Re 14b. Signature:	14c. Approv Number:			with the Canadian	
		9-89		N/A			N/A	
Suzanne Bedford			13c. Date (dd/mmm/yyyy): 24/Aug/2010	14d. Name: N/A			14e. Date (dd/mmm/yyyy): N/A	
(Previous	ly form 24-0078)							
This cer	tificate does not constitute	e authority to install.	Installer R	esponsibilities			I	mportant: See notes
Installers specified.	working in accordance w	vith the national regulations	of a country other than that specif ertification. In all cases, the techni y be flown.	ied in block 1 must ens				

Close D

#### L Lacelle

From:

David Shepherd [dshepherd@dartaero.com]

Sent:

January 5, 2011 5:21 PM

To:

'Jason Murdoch'; 'L Lacelle'; 'Marc Bellavance'

Cc:

'Stow, Dan'; 'Susanne Sheldon'; 'Mike Petsche'; swillems@dartaero.com; 'Bill Beckett'

Subject: RE: Crosstube corrosion from Expedition

Jason,

I would recommend that we NDT them.

David

From: Jason Murdoch [mailto:jmurdoch@dartaero.com]

Sent: Wednesday, January 05, 2011 1:59 PM

To: 'L Lacelle'; 'Marc Bellavance'

Cc: 'Stow, Dan'; 'Susanne Sheldon'; 'Mike Petsche'; 'David Shepherd'; swillems@dartaero.com; 'Bill

Beckett'

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Jason Murdoch
Quality Coordinator
imurdoch@dartaero.com
DART Aerospace Ltd.
613-632-5200

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To: 'Marc Bellavance'

Cc: 'Jason Murdoch'; 'Stow, Dan'; 'Susanne Sheldon'; 'Mike Petsche'; 'David Shepherd';

swillems@dartaero.com; 'Bill Beckett'

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Sent: January 5, 2011 1:49 PM

To: 'L Lacelle'

Cc: 'Jason Murdoch'; 'Stow, Dan'; 'Susanne Sheldon'; 'Mike Petsche'; 'David Shepherd';

swillems@dartaero.com; 'Bill Beckett'

Subject: RE: Crosstube corrosion from Expedition

Importance: High

Linda,

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Marc Bellavance Technical/Shop Support

#### DART aerospace Ltd.

Tel: 613-632-5200 Ext. 243

Cel: 613-676-0992 Fax: 613-632-9311

E-mail: mbellavance@dartaero.com

Web: www.dartaero.com

Product Documentation: Verify Revision Status/Download HERE!

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**From:** Bill Beckett [mailto:bbeckett@dartaero.com]

Sent: December 20, 2010 12:55 PM

To: 'Peggy McDonald'; swillems@dartaero.com; 'L Lacelle'

Cc: 'Marc Bellavance'; Jason Murdoch; 'Stow, Dan'; Susanne Sheldon; 'Mike Petsche'; 'David Shepherd'

**Subject:** RE: Crosstube corrosion from Expedition

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Sian - no-charge on a CSR. Please indicate ship date (talk to LL).

Linda – pls prepare work order NB – no priming! Ensure interior is protected during etch and alodine.

Bill

**From:** Peggy McDonald [mailto:peggy@darths.com]

Sent: December 20, 2010 12:48 PM

**To:** Bill Beckett **Cc:** Marc Bellavance

Subject: Crosstube corrosion from Expedition

Importance: High

HI Bill,

I spoke with Expedition this morning about the crosstube corrosion issue.

To resolve the issue, I took your recommendation and offered the crosstube rework at no sharge. (removal of the surface corrosion, acid etch and alodine)

PLEASE NOTE: the customer will do their our priming right before paint.

These can be returned the them early in the new year. I recommend a MISC no charge PO to be sent to DAS. Freight will be on the DHS account.

Please advise how you would like DHS to proceed.

Peggy

## PLEASE NOTE OUR NEW CORPORATE OFFICE ADDRESS: 4650 North Avenue, Oceanside, California 92056

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Any views expressed in this message are those of the individual sender, except where the sender specifically states them to be the views of DART Helicopter Services.

January 5, 2011 3:20:21 PM

Criteria: All Items	All Locations	All Warehouses	All Quantity				
Item ID Item Name	Warehouse ID Location ID	Lot Number	Last Trans Date	Lot Qty	Shelf Life Dt Lot Code	Type Code	Comments
D212-664-201CM	Main Warehouse	60450	12/14/10	1.0000	·		
Crosstube, customer mat'l	RMAInspect		 Total	1,0000			

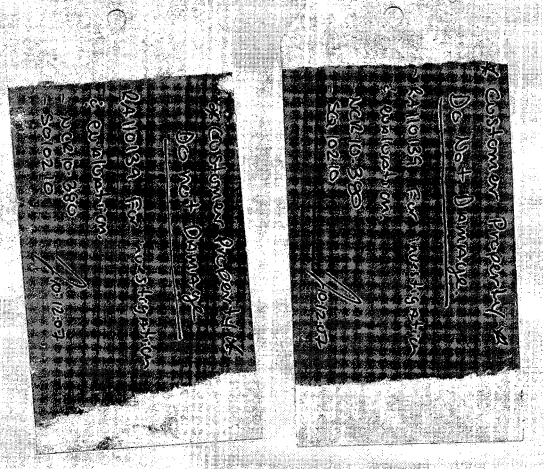
64S47

JK 10631.

January 5, 2011 3:20:06 PM

Criteria: All Items	All Locations	All Warehouses	All Quantity				
Item ID Item Name	Warehouse ID Location ID	Lot Number	Last Trans Date	Lot Qty 5	Shelf Life Dt Lot Code	Type Code	Comments
D212-664-101CM Crosstube, customer mat'l	Main Warehouse RMAInspect	60522	12/14/10	1.0000			2
	•		Total:	1.0000			

64541



## Work Order ID 64547

December 21, 2010 2:30:32 PM

|--|--|

Page 1

Item ID:

D212-664-201

Accept



Setup Start

Stop



**Revision ID:** 

Item Name:

Crosstube Aft

**Start Date:** 12/08/10 Required Date: 12/09/10

Start Qty: 1.00 Req'd Qty: 1.00

**Cust Item ID:** 

**Customer:** 

CU-DAR001

Reference:

RMA RA110139

+ REWORK.

Tooling:

Date:

Start Run

Stop

Approvals:

**Process Plan:** 

QC:

Date: Date:

**SPC (Y/N):** 

Date:

Accept

Reject

Sequence ID/ **Work Center ID**  Operation Description

Set Up/ **Run Hours**  Tool ID

Tool # Plan Qty Code

Qty

Reject Number Stamp

Insp.

**Draw Nbr** 

**Revision Nbr** 

D212-664-241

Rev D

100

Quality Control

Memo

INSPECT RA110139 D212-664-201 B60450 0.00

0.00